THE VITESSE V683

CAMBRIDGE MICRO COMPUTERS

VITESSE

VITESSE V683/3

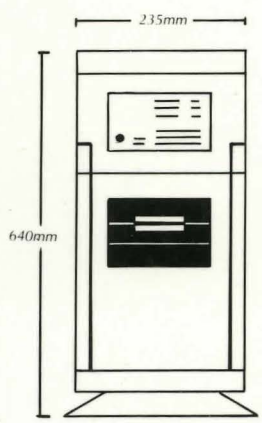
Based on the MOTOROLA 68030 processor the V683/3 provides outstanding computing performance – 8 MIPS (million instructions per second). High resolution colour graphics capability is included together with support for a large number of ASCII terminals (multiples of 16 terminals up to a maximum of 64).

The system architecture is based on the VME bus and a typical configuration leaves 5 backplane slots free for further expansion of the system or customization for specific applications. The computer features high speed memory with 4Mbyte minimum, expandable up to 16Mbyte. The latest disk technology provides ultra-high speed disk drives with access time of 16mSec and storage capacity of 300Mbyte (formatted) expandable to in excess of 1 Gigabyte.

The V683 gives the user the option of two alternative operating systems: OS–9 real time operating system or UNIX SYSTEM V. The UNIX software includes NFS and X-Windows and is upwardly compatible with 68020-based systems. The OS–9 operating system gives a UNIX-like environment with a special set of UNIX-compatible library functions and 68000/68020 C Compilers.

The system has built-in Ethernet capability with the industry-standard TCP/IP software. Transparent sharing of files and data across a network of computers can be provided by means of NFS software.

A user-friendly interface is made available by the X-Windows software. This is a network transparent windowing system which can be used



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by any number of graphics workstations linked via Ethernet – other computer manufacturers supporting X-Windows include SUN and DEC. The windowing software supports both text and graphics plus VT100 and Tektronix terminal emulation.

CPU

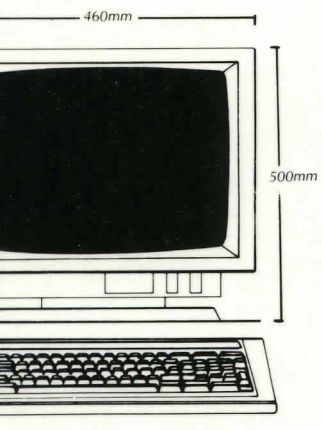
The 68030 is a true 32-bit processor and it includes an on-chip memory management unit. It has an internal Harvard-style architecture which allows a higher level of concurrent processing to be achieved by the pipeline mechanism. The internal architecture of the device includes an on-chip data cache and an on-chip instruction cache which are accessed concurrently via multiple address and data buses.
An SCSI interface is provided by a dedicated 68020 processor and this supports data rates up to 4 Mbytes/sec.

RAM

Fast dual-ported dynamic RAM with parity protection is resident on the CPU and is designed to provide the maximum benefit with the 68030 cacheing facilities. The RAM sizes available are 4Mb, 8Mb, 16Mb.

DISK STORAGE

The SCSI interface enables the use of ultra high speed 5¼" disk drives with average access times of 16mSec. Winchester storage capacities available include 100Mb, 190Mb, 300Mb, 576Mb and 765Mb. The system will support two drives within the cabinet, thus enabling a total storage capacity in excess of 1GByte.



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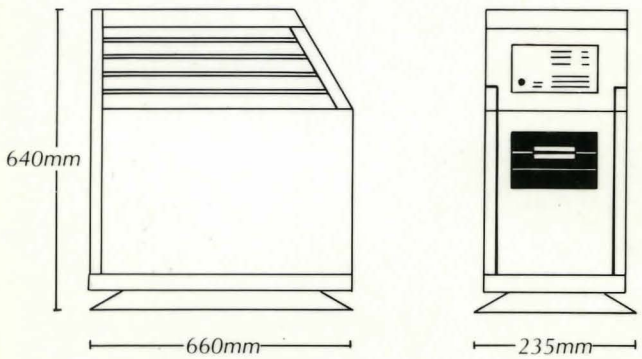
SPECIFICATIONS



MASS STORAGE:
300Mbyte Winchester Disk Drive
16ms (Access)
574Mbyte (Optional) × 1 or × 2
16ms (Access)
765Mbyte (Optional) × 1 or × 2
18ms (Access)

BACK-UP:
750Kb Floppy Drive, 5¼" or 3½" format
¼" Cartridge Tape Drive, 120Mb Capacity
½" Cartridge Tape Drive, 200Mb Capacity (option)
OPTICAL DISK DRIVE (option)

MEMORY:
4Mb (Standard)
8Mb (Optional)
16Mb (Optional)

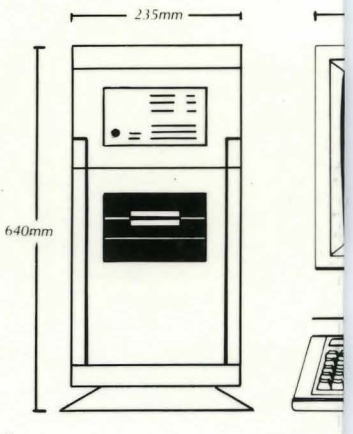
NETWORKING:
Ethernet TCP/IP
NFS (Optional)
X–25 (Optional)

OPERATING SYSTEM:
UNIX V.2.2.
OS–9 V2.1 (Optional)

GRAPHICS SYSTEM

Display Resolution:
1024 × 768 pixels

Colours:
16 colours from palette of 16 million
256 colours from palette of 16 million (Optional)



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Bits/Pixel:
4 bits (Standard)
8 bits (Optional)

Monitor:
19" screen
32 KHz line frequency

Cursor Control:
Mouse (Standard)
Trackerball (Optional)

Windowing:
X-Windows

Keyboard:
Full ASCII Keyboard with 10 function keys

SOFTWARE

Office Automation:
UNIPLEX II PLUS Integrated suite of software inc. Word Processing, Spreadsheet, Database & Business Graphics

Database:
Unify
Informix

4GL:
Accel
Sea-Change

Graphics:
GKS Library functions
DI3000 Graphics tools package
PIC-SURE Presentation graphics
MLD-2 2-D Drafting package

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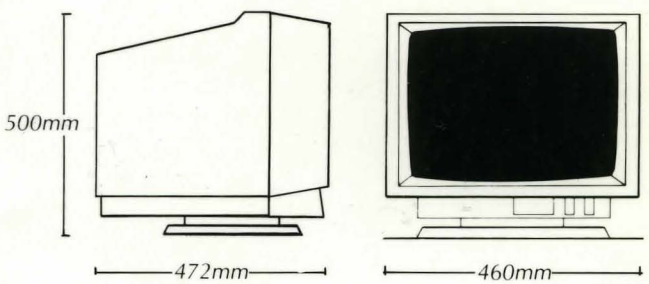

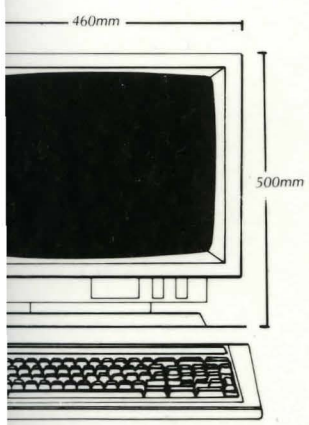

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Your local dealer is:

CAMBRIDGE MICRO COMPUTERS

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